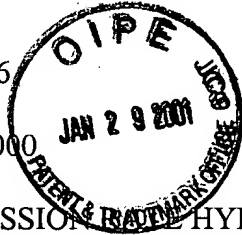In re Application of:

Karabeyoglu, et al.

Serial No.: 09/505,516

Filed: February 17, 2000

For: HIGH REGRESSION RATE HYBRID
ROCKET PROPELLANTS AND
METHOD OF SELECTING

Examiner: E. Miller

Group Art Unit: 3641

San Francisco, CA 94111

Date: January 25, 2001

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AMENDMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

This is in response to the Office Action dated July 28, 2000 in the above-referenced application. Please amend the application as follows:

IN THE SPECIFICATION:

Page 14, line 4 delete "a" and insert --σ--.

IN THE CLAIMS:

Please amend the claims as follows:

14.   A method of selecting a propellant that exhibits desirable regression rate during combustion within a port having a gas stream flowing through the port, comprising the steps of:

selecting a propellant having under heat transfer from the gas stream flowing though the port, a liquid layer with surface tension σ and liquid viscosity μ, values that promote entrainment of droplets from said liquid layer into said gas stream flowing in said port;

determining for the selected propellant a$_{onset}$ [for a given port mass flux, $G = \rho_g U_g$, where

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